

Unit 2 Review: Compare & Order
Fractions, Decimals, Percents; Fractions
Computation

Name Answer Key
Date _____ Block _____

Part 1

- 1) Which statement below is true?

Turn to decimals or percents, first!

A. $0.30 > 40\%$
 0.40

B. $0.04 = 4\%$
 0.04

C. $0.40 = 4\%$
 0.04

D. $0.40 > 40\%$
 0.40

- 2) Which of the following is in order from least to greatest?

Put in decimal form first!

A. $0.003, \frac{3}{10}, 3.0$
 0.3

B. $\frac{1}{10}, 0.003, 3.0$
 0.3

C. $\frac{1}{10}, 3.0, 0.003$
 0.3

D. $3.0, \frac{3}{10}, 0.003$
 0.3

- 3) Which statement is true? you need common denominators.

~~A. $\frac{5}{9} > \frac{8}{9}$~~

~~B. $\frac{4}{5} < \frac{5}{8}$~~
 $\frac{32}{40} < \frac{25}{40}$

C. $\frac{6}{9} = \frac{8}{12}$
 $\frac{2}{3} = \frac{2}{3}$

~~D. $\frac{7}{5} > \frac{5}{3}$~~
 $\frac{21}{15} > \frac{25}{15}$

- 4) Which set of fractions is in order from least to greatest?

you must have a common denominator to compare!

A. $\frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$

B. $\frac{2}{3}, \frac{7}{12}, \frac{5}{6}, \frac{3}{4}$

C. $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}, \frac{7}{12}$

D. $\frac{5}{6}, \frac{7}{12}, \frac{2}{3}, \frac{3}{4}$

$\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ ②

$\frac{5 \times 2}{6 \times 2} = \frac{10}{12}$ ④

$\frac{3 \times 3}{4 \times 3} = \frac{9}{12}$ ③

$\frac{7}{12}$ ①

When comparing decimals, add zeros so they all have the same # of digits.

- 5) Which statement is true?

~~A. $0.008 > 0.080$~~

~~B. $1.847 < 1.478$~~

C. $3.259 > 3.195$

~~D. $6.410 < 6.401$~~

- 6) Which statement is true?

Get common denominators first!

A. $\frac{3}{4} > \frac{7}{12}$
 $\frac{9}{12} > \frac{7}{12}$

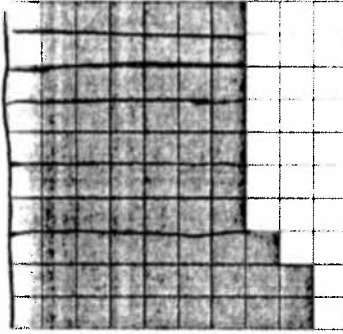
~~B. $\frac{7}{7} > \frac{6}{7}$~~
 $\frac{7}{7} > \frac{6}{7}$

$\frac{14}{21} > \frac{18}{21}$ $\frac{4}{20} > \frac{5}{20}$

$\frac{33}{88} > \frac{48}{88}$

Reduce!

- 7) Which represents the part of the 10-by-10 grid that is shaded?



Count how many are shaded out of the total # of blocks.
75-shaded
100-Total
 $\frac{3}{4}$ (reduced)

A. $\frac{1}{2}$ C. $\frac{7}{10}$

B. $\frac{3}{5}$ D. $\frac{3}{4}$

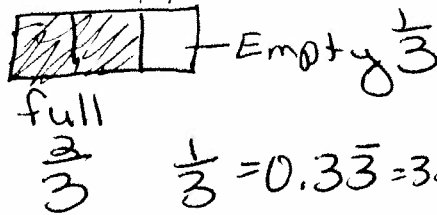
- 8) Dr. Bergren's gas tank was $\frac{2}{3}$ full. What percent of the tank was empty?

A. 25%

B. 33%

C. 60%

D. 75%



$\frac{1}{3} = 0.3\bar{3} = 33\%$

- 9) John completed 60% of the road race before spraining his ankle. What fraction of the course had he completed before getting injured?

A. $\frac{1}{3}$

B. $\frac{1}{2}$

C. $\frac{3}{5}$

D. $\frac{2}{3}$

$60\% = \frac{60 \div 20}{100 \div 20}$
(reduce)
 $= \frac{3}{5}$

OR

$60\% = 0.6$
 $= \frac{6 \div 2}{10 \div 2}$
reduce
 $= \frac{3}{5}$

- 10) Which percent is equal to $\frac{21}{30}$?

A. 7%

B. 50%

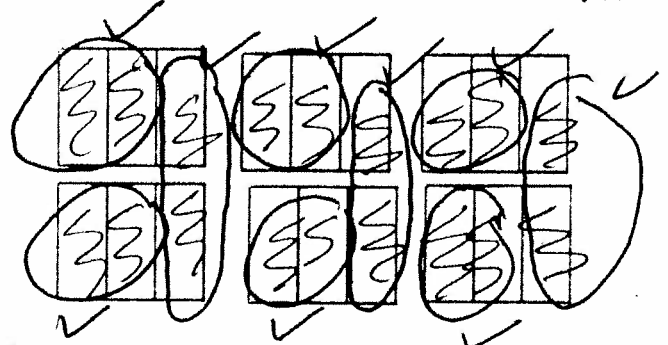
C. 68%

D. 70%

$\frac{21 \div 3}{30 \div 3} = \frac{7}{10}$
 $= 0.7$
 $= 70\%$

- 11) This figure represents 1 whole divided into three parts.

How many two-thirds are in 6? $6 \div \frac{2}{3} = 9$



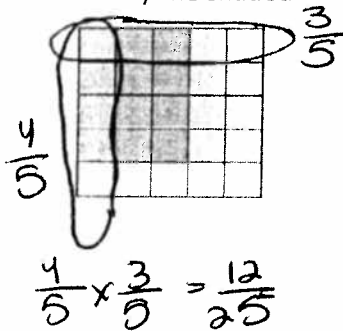
- 12) Which product is demonstrated by the shaded model?

A. $\frac{3}{25} \times \frac{4}{25}$

B. $\frac{12}{15} \times \frac{4}{5}$

C. $\frac{3}{5} \times \frac{4}{5}$

D. $\frac{12}{18} \times \frac{3}{7}$



$\frac{4}{5} \times \frac{3}{5} = \frac{12}{25}$

- 13) Which expression has the same solution as

$\frac{1}{6} \div \frac{3}{10}$

Keep, change, flip!

A. $\frac{1}{6} \times \frac{3}{10}$

B. $\frac{1}{6} \times 3\frac{1}{10}$

C. $\frac{1}{6} \div 3\frac{1}{3}$

D. $6 \times \frac{3}{10}$

$\frac{1}{6} \times \frac{10}{3}$

(change to a mixed number)

$\frac{1}{6} \times 3\frac{1}{3}$

Study your flashcards! Part 2

Adding & Subtracting fractions. make sure you have

Fraction * Reduce	Decimal	Percent
$\frac{3}{10}$	0.3 or 0.30	30%
$\frac{8 \div 2}{10 \div 2} = \left(\frac{4}{5}\right)$	0.8	80%
$\frac{1}{3}$	0.33	33.3%
$\frac{25}{100} = \left(\frac{1}{4}\right)$	0.25	25%
$\frac{2}{3}$	0.66	66.6%
$\frac{3}{4}$	0.75	75%
$\frac{4 \div 2}{10 \div 2} = \left(\frac{2}{5}\right)$	0.4	40%

① $\frac{3}{4} + \frac{5}{4}$ you can't take 5 away from 3, so you must regroup!

$$\begin{array}{r} 2\frac{3}{4} + \frac{5}{4} \\ -1\frac{5}{4} \\ \hline 1\frac{3}{4} + 1\frac{1}{2} \end{array}$$

② $\frac{7}{4} + \frac{5}{4}$ you need common denominators!

$$\frac{14}{8} + \frac{10}{8} = \frac{24}{8} = 3$$

③ $3\frac{5}{8} - \frac{1}{4}$ you need common denominators!

$$3\frac{5}{8} - \frac{2}{8} = 3\frac{3}{8}$$

④ $3\frac{2}{7} - 2\frac{1}{8}$ you need common denominators!

$$\begin{array}{r} 3\frac{16}{56} - 2\frac{7}{56} \\ \hline 1\frac{9}{56} \end{array}$$

⑤ $1\frac{2}{3} - \frac{2}{3}$ you can't take 2 away from 1, so you must regroup!

$$\begin{array}{r} 1\frac{1}{3} + \frac{2}{3} - \frac{2}{3} \\ \hline 1\frac{1}{3} \end{array}$$

$$\textcircled{6} \frac{13 \times 8}{7 \times 8} - \frac{1 \times 7}{8 \times 7}$$

$$\frac{104}{56} - \frac{7}{56} = \frac{97}{56}$$

$$\textcircled{1 \frac{41}{56}}$$

$$\textcircled{7} \frac{4}{3} - \frac{1}{3} = \frac{3}{3} = \textcircled{1}$$

$$\textcircled{8} 2 + \frac{2}{5} = 2\frac{2}{5}$$

$$\textcircled{9} 5 + 4\frac{1}{2} = 9\frac{1}{2}$$

$$\textcircled{10} 2 + 2\frac{2}{3} = 4\frac{2}{3}$$

$$\textcircled{11} \frac{7}{4} \div \frac{1}{5}$$

$$\frac{7}{4} \times \frac{5}{1} = \frac{35}{4}$$

$$= \textcircled{8 \frac{3}{4}}$$

$$\textcircled{12} 1 \div 2\frac{1}{6} \text{ — change to an improper fraction first,}$$

$$1 \div \frac{13}{6}$$

$$\frac{1}{1} \times \frac{6}{13} = \textcircled{\frac{6}{13}}$$

$$\textcircled{13} 4\frac{1}{2} \div 3\frac{5}{7}$$

$$\frac{9}{2} \div \frac{26}{7}$$

$$\frac{9}{2} \times \frac{7}{26} = \frac{63}{52}$$

$$= \textcircled{1 \frac{11}{52}}$$

$$\textcircled{14} 3\frac{1}{10} \times \frac{15}{8}$$

$$2\frac{31}{10} \times \frac{15}{8} = \frac{93}{8}$$

$$= \textcircled{5 \frac{13}{16}}$$

$$\textcircled{15} 4\frac{3}{4} \times 2\frac{4}{9}$$

$$\frac{19}{4} \times \frac{22}{9} = \frac{209}{18} = \textcircled{11 \frac{11}{18}}$$

$$\textcircled{16} \frac{1}{5} \div 3\frac{1}{6}$$

$$\frac{1}{5} \div \frac{19}{6}$$

$$\frac{1}{5} \times \frac{6}{19} = \textcircled{\frac{6}{95}}$$

$$\textcircled{17} 3\frac{4}{5} \div 1\frac{5}{6}$$

$$\frac{19}{5} \div \frac{11}{6}$$

$$\frac{19}{5} \times \frac{6}{11} = \frac{114}{55} = \textcircled{2 \frac{4}{55}}$$

$$\textcircled{18} 4\frac{2}{9} \times \frac{3}{7}$$

$$\frac{38}{9} \times \frac{3}{7} = \frac{38}{21}$$

$$= \textcircled{1 \frac{17}{21}}$$

$$\textcircled{19} \frac{1}{2} \times \frac{1}{1} = \frac{1}{2}$$

$$\textcircled{20} 2\frac{4}{9} \times \frac{11}{8}$$

$$2\frac{4}{9} \times \frac{11}{8} = \frac{121}{36}$$

$$= \textcircled{3 \frac{13}{36}}$$

Multiplication

- ① Change to an improper fraction if needed
- ② multiply the numerators and the denominators
- ③ reduce

Division

- ① Change to an improper fraction if needed
- ② Keep, change, Flip
- ③ multiply
- ④ Reduce